Index to Volume 29

Author Index

BAILEY-BROCK, JULIE H.:
see McLaughlin and Bailey-Brock

BERGER, ANDREW J.:
The Warbling Silverbill, a new nesting bird in Hawaii, 51–54

BRYAN, PATRICK G.:
Food habits, functional digestive morphology, and assimilation efficiency of the rabbitfish *Siganus spinus* (Pisces, Siganidae) on Guam, 269–277

BURNETT, WILLIAM C.:
Trace element geochemistry of biogenic sediments from the western equatorial Pacific, 219–225

CANNON, L. R. G.:
On the reproductive biology of *Cerithium moniliferum* Kiener (Gastropoda, Cerithiidae) at Heron Island, Great Barrier Reef, 353–359

CASTLE, P. H. J.
Osteology and relationships of the eel *Diastobranchus capensis* (Pisces, Synaphobranchidae), 159–163

CHOW, K. H., and L. V. CROWDER:
Esterase isozyme patterns of some tropical and subtropical herbaceous legumes, 365–369

COLES, STEPHEN L.:
A comparison of effects of elevated temperature versus temperature fluctuations on reef corals at Kahe Point, Oahu, 15–18

COULBOURN, WILLIAM T., and JOHANNA M. RESIG:
On the use of benthic foraminifera as sediment tracers in a Hawaiian bay, 99–115

CROWDER, L. V.:
see Chow and Crowder

DERKS, P. STEVE:
see Rosato, Kulm, and Derks

FELLOWS, DAVID P.:
On the distribution of the Hawaiian ghost crab, *Ocypode laevis* Dana, 257–258

FELTEN, HEINZ:
see Wodzicki and Felten

FISHER, HARVEY I.:
Mortality and survival in the Laysan Albatross, *Diomedea immutabilis*, 279–300

FRITZSCHE, RONALD A.:
First description of the adult male of *Microgнathus brachyrhinus* (Pisces, Syngnathidae), 267–268

GORE, ROBERT H.:
Petrolisthes zacae Haig, 1968 (Crustacea, Decapoda, Porcellanidae): the development of larvae in the laboratory, 181–196

GREEN, R. C., and HORACE G. RICHARDS:
Lapita pottery and a lower sea level in Western Samoa, 309–315

HASSAN, TJETJE S., H. IKAWA, and L. D. SWINDALE:
The properties and genesis of four soils derived from basaltic ash, Mauna Loa, Hawaii, 301–308

IKAWA, H.:
see Hassan, Ikawa, and Swindale

KAILOLA, PATRICIA J.:
The rare moray eel *Gymnothorax pikei* Bliss recorded from Papua New Guinea, 165–170

KRIDLER, E.:
see Whittow, Szekerczes, Kridler, and Olsen

KULM, L. D.:
see Rosato, Kulm, and Derks

LEARY, DANIEL F., GARTH I. MURPHY, and MARILYN MILLER:
Fecundity and length at first spawning of the Hawaiian anchovy, or nehu (*Stolephorus purpureus* Fowler) in Kaneohe Bay, Oahu, 171–180

LINDGREN, ERIC:
see Zug, Lindgren, and Pippet

McCOSKER, JOHN E.:
The eel genus *Phaenomonas* (Pisces, Ophichthidae), 361–363

MCLAUGHLIN, PATSY A., and JULIE H. BAILEY-BROCK:
A new Hawaiian hermit crab of the genus *Trizopagurus* (Crustacea, Decapoda, Diogenidae), with notes on its behavior, 259–266

MACLEAN, J. L.:
Paralytic shellfish poison in various bivalves, Port Moresby. 1973, 349–352
Red tide in the Morobe District of Papua New Guinea, 7–13
see also Worth, Maclean, and Price.

MILLER, BRUCE A.:
The biology of *Terebra gouldi* Deshayes, 1859, and a discussion of life history similarities among other terebrids of similar proboscis type, 227–241

MILLER, EDWARD H.:
Annual cycle of fur seals, *Arctocephalus forsteri* (Lesson) on the Open Bay Islands, New Zealand, 139–152

MILLER, MARILYN:
see Leary, Murphy, and Miller

MURPHY, GARTH I.:
see Leary, Murphy, and Miller

OLSEN, D. L.:
see Whittow, Szekerczes, Kridler, and Olsen

PIPPET, JOHN R.:
see Zug, Lindgren, and Pippet
POORE, GARY C. B.:
Systematics and distribution of *Callianassa* (Crustacea, Decapoda, Macrura) from Port Phillip Bay, Australia, with descriptions of two new species, 197–209
POULTER, J. L.:
Hawaiian polyclad flatworms: prosthiostomids, 317–339
PRICE, M. J.:
see Worth, Maclean, and Price

RESIG, JOHANNA M.:
see Coulbourn and Resig
RICHARDS, HORACE G.:
see Green and Richards
ROBINSON, BRUCE H.:
Observations on living juvenile specimens of the slender mola, *Ranzania laevis* (Pisces, Molidae), 27–29
ROE, PAMELA:
Aspects of life history and of territorial behavior in young individuals of *Platynereis bicanaliculata* and *Nereis vexillosa* (Annelida, Polychaeta), 341–348
ROSATO, VICTOR J., L. D. KULM, and P. STEVE DERKS:
Surface sediments of the Nazca Plate, 117–130

ST. JOHN, HAROLD:
Revision of the genus *Pandanus* Stickman. Part 38, *Pandanus* in Fiji, first group (except section *Pandanus*), 55–77
Revision of the genus *Pandanus* Stickman, Part 39, *Pandanus* of Rotuma Island, Pacific Ocean, 371–406
SWINDALE, L. D.:
see Hassan, Ikawa, and Swindale
SZEKERCZES, J.:
see Whittow, Szekerczes, Kridler, and Olsen

VAN ROYAN, P.:
Sertulum Papuanum 20. The Boraginaceae of the alpine regions of New Guinea, 79–98

WHITTOW, G. C., J. SZEKERCZES, E. KRIDLER, and D. L. OLSEN:
Skin structure of the Hawaiian monk seal (*Monachus schauinslandi*), 153–157
WODZICKI, KAZIMIERZ, and HEINZ FELTEN:
The peka, or fruit bat (*Pteropus tonganus tonganus*) (Mammalia, Chiroptera), of Niue Island, South Pacific, 131–138
WORTH, G. K., J. L. MACLEAN, and M. J. PRICE:
Paralytic shellfish poisoning in Papua New Guinea 1–5

YOUNG, RICHARD E.:
Function of the dimorphic eyes in the midwater squid *Histioteuthis dofleini*, 211–218
Leachia pacifica (Cephalopoda, Teuthoidea): spawning habitat and function of the brachial photophores, 19–25
Transitory eye shapes and the vertical distribution of two midwater squids, 243–255

ZUG, GEORGE R., ERIC LINDGREN, and JOHN R. PIPPET:
Distribution and ecology of the marine toad, *Bufo marinus* in Papua New Guinea, 31–50

Subject Index*

Amphibia
distribution and ecology of the marine toad, *Bufo marinus*, in Papua New Guinea, 31–50
Angiospermae
esterase isozyme patterns of some tropical and subtropical herbaceous legumes, 365–369
revision of the genus *Pandanus* Stickman. Part 38, *Pandanus* in Fiji, first group (except section *Pandanus*), 55–77
revision of the genus *Pandanus* Stickman, Part 39, *Pandanus* of Rotuma Island, Pacific Ocean, 371–406
Anthozoa
comparison of effects of elevated temperature versus temperature fluctuations on reef corals at Kahe Point, Oahu, 15–18
Arctocephalus forsteri (Lesson), annual cycle of, on the Open Bay Islands, New Zealand, 139–152

* Biological organisms are indexed under their respective classes.

Aves
mortality and survival in the Laysan Albatross, *Diomedia immutabilis*, 279–300
the Warbling Silverbill, a new nesting bird in Hawaii, 51–54
Australia
on the reproductive biology of *Cerithium moniliferum* Kiener (Gastropoda, Cerithiidae) at Heron Island, Great Barrier Reef, 353–359.
systematics and distribution of *Callianassa* (Crustacea Decapoda, Macrura) from Port Philip Bay, with descriptions of two new species, 197–209

Basaltic ash, properties and genesis of four soils derived from, on Mauna Loa, Hawaii, 301–308
Bivalvia
paralytic shellfish poisoning in Papua New Guinea, 1972, 1–5
paralytic shellfish poison in various bivalves, Port Moresby, 1973, 349–352

red tide in the Morobe District of Papua New Guinea, 7–13
Bufo marinus, distribution and ecology of, in Papua New Guinea, 31–50

Callianassa, systematics and distribution of, from Port Phillip Bay, Australia, 197–209
Callianassa arenosa, new species, 197–209
Callianassa limosa, new species, 197–209
Cephalopoda
function of the dimorphic eyes in the midwater squid *Histioteuthis dofleini*, 211–218
Leachia pacifica (Teuthoidea): spawning habitat and function of the brachial photophores, 19–25
transitory eye shapes and the vertical distribution of two midwater squids, 243–255
Cerithium moniliferum Kiener, on the reproductive biology of, at Heron Island, Great Barrier Reef, 353–359
Crustacea
a new Hawaiian hermit crab of the genus *Trizopagurus* (Decapoda, Diogenidae), with notes on its behavior, 259–266
on the distribution of the Hawaiian ghost crab, *Ocypode laevis* Dana, 257–258
Petrolisthes zacae Haig, 1968 (Decapoda, Porcellanidae), development of larvae of, in the laboratory, 181–196
systematics and distribution of *Callianassa* (Decapoda, Macrura) from Port Philip Bay, Australia, with descriptions of two new species, 197–209

Danger Island. *See* Niue Island
Diastrobranchus capensis, osteology and relationships of, 159–163
Digitati sect. nov., 55–77
Dinophyceae
paralytic shellfish poisoning in Papua New Guinea, 1972, 1–5
paralytic shellfish poison in various bivalves, Port Moresby, 1973, 349–352
red tide in the Morobe District of Papua New Guinea, 7–13
Diomedea immutabilis, mortality and survival in, 279–300

Fiji
revision of the genus *Pandanus*. Part 38, *Pandanus* in, first group (except section *Pandanus*), 55–77
Foraminifera
on the use of, as sediment tracers in a Hawaiian bay, 99–115
trace element geochemistry of biogenic sediments from the western equatorial Pacific, 219–225
Fur seals, annual cycle of, on the Open Bay Islands, New Zealand, 139–152

Gastropoda
biology of *Terebra gouldi* Deshayes, 1859, and a discussion of life history similarities among other terebrids of similar proboscis type, 227-241
on the reproductive biology of *Cerithium moniliferum* Kiener (Cerithiidae) at Heron Island, Great Barrier Reef, 353–359
Guam
food habits, functional digestive morphology, and assimilation efficiency of the rabbitfish *Siganus spinus* (Pisces, Siganidae) on, 269–277
Gymnothorax pikei Bliss recorded from Papua New Guinea, 165–170

Hawaiian anchovy, fecundity and length at first spawning of, in Kaneohe Bay, Oahu, 171–180
Hawaiian ghost crab, on the distribution of the, 257–258
Hawaiian islands
comparison of effects of elevated temperature versus temperature fluctuations on reef corals at Kahe Point, Oahu, 15–18
fecundity and length at first spawning of the Hawaiian anchovy, or nehu (*Stolephorus purpureus* Fowler) in Kaneohe Bay, Oahu, 171–180
first description of the adult male of *Microgmathus brachyrhinus* (Pisces, Syngnathidae), 267–268
function of the dimorphic eyes in the midwater squid *Histioteuthis dofleini*, 211–218
Hawaiian polyclad flatworms: prosthiostomids, 317–339
Leachia pacifica (Cephalopoda, Teuthoidea): spawning habitat and function of the brachial photophores, 19–25
mortality and survival in the Laysan Albatross, *Diomedea immutabilis*, 279–300
a new Hawaiian hermit crab of the genus *Trizopagurus* (Crustacea, Decapoda, Diogenidae), with notes on its behavior, 259–266
on the distribution of the Hawaiian ghost crab, *Ocypode laevis* Dana, 257–258
on the use of benthic foraminifera as sediment tracers in a Hawaiian bay, 99–115
properties and genesis of four soils derived from basaltic ash, Mauna Loa, Hawaii, 301–308
skin structure of the Hawaiian monk seal (*Monachus schauinslandi*), 153–157
transitory eye shapes and the vertical distribution of two midwater squids, 243–255
the Warbling Silverbill, a new nesting bird in Hawaii, 51–54
Hawaiian monk seal, skin structure of the, 153–157
Histioteuthis dofleini, function of the dimorphic eyes in, 211–218

Key
to the genera of Boraginaceae, 80
to the section *Digitati*, 55
to the section *Galeatistigma*, 55
to the section *Radiatistigma*, 56
to the sections of the genus *Pandanus*, 55
to the species of *Pandanus* found on Rotuma Island, 371
to the species of *Trigonotis*, 82–83

Laysan Albatross, mortality and survival in the, 279–300
Leachia pacifica, spawning habitat and function of the brachial photophores of, 19–25
Legumes, esterase isozyme patterns of some tropical and subtropical herbaceous, 365–369

Lonchura malabarica cantans, a new nesting bird in Hawaii, 51–54

Mammalia
annual cycle of fur seals, *Arctocephalus forsteri* (Lesson), on the Open Bay Islands, New Zealand, 139–152
the peka, or fruit bat (*Pteropus tonganus tonganus*) (Chiroptera), of Niue Island, South Pacific, 131–138
skin structure of the Hawaiian monk seal (*Monachus schauinslandi*), 153–157
Marine toad, distribution and ecology of, in Papua New Guinea, 31–50
Micrognathus brachyrhinus, first description of the adult male of, 267–268
Monachus schauinslandi, skin structure of, 153–157

Nazca Plate, surface sediments of, 117–130
Nehu, fecundity and length at first spawning of, in Kaneohe Bay, Oahu, 171–180
Nereis vexillosa, aspects in life history and of territorial behavior in young individuals of, 341–348
New combination
Trigonotis baackii F. Mueller var. *archboldii* (Angiospermae), 79–98
New cultivar
Pandanus Hata St. John cv. 'Saanga' (Angiospermae), 371–406
Pandanus tectorius Warb. var. *novi-caledonicus* Martelli cv. 'Farkoi' (Angiospermae), 371–406
New Guinea
Sertulum Papuanum. 20, the Boraginaceae of the alpine regions of New Guinea, 79–98
New section
Digitati (Angiospermae), 55–77
Radiatistigma (Angiospermae), 55–77
New species
Callianassa arenosa (Crustacea), 197–209
Callianassa limosa (Crustacea), 197–209
Pandanus basalticola (Angiospermae), 371–406
Pandanus brachus (Angiospermae), 371–406
Pandanus Gillespiei (Angiospermae), 55–77
Pandanus Hata (Angiospermae), 371–406
Pandanus rotumaensis (Angiospermae), 371–406
Pandanus rubricinctus (Angiospermae), 371–406
Pandanus taveuniensis (Angiospermae), 55–77
Pandanus Varawa (Angiospermae), 55–77
Prosthiostomum (*Lurymare*) *katoi* (Turbellaria), 317–339
Prosthiostomum (*Prosthiostomum*) *montiporae* (Turbellaria), 317–339
Trigonotis culminicola (Angiospermae), 79–98
Trigonotis vestita (Angiospermae), 79–98
New status
Trigonotis baackii F. Mueller var. *archboldii* (Angiospermae), 79–98
New Zealand
annual cycle of fur seals, *Arctocephalus foresteri* (Lesson), on the Open Bay Islands, 139–152
Niue Island
the peka, or fruit bat (*Pteropus tonganus tonganus*) (Mammalia, Chiroptera), cf. 131–138
Ocypode laevis Dana, on the distribution of, 257–258
Pandanus basalticola sp. nov., 371–306
Pandanus brachus sp. nov., 371–406
Pandanus Gillespiei sp. nov., 55–77
Pandanus Hata sp. nov., 371–406
Pandanus Hata St. John cv. 'Saanga', new cultivar, 371–406
Pandanus rotumaensis sp. nov., 371–406
Pandanus rubricinctus sp. nov., 371–406
Pandanus taveuniensis sp. nov., 55–77
Pandanus tectorius Warb. var. *novi-caledonicus* Martelli cv. 'Farkoi', new cultivar, 371–406
Pandanus Varawa sp. nov., 55–77
Papua New Guinea. *See also* New Guinea
distribution and ecology of the marine toad, *Bufo marinus*, in, 31–50
paralytic shellfish poisoning in, 1972, 1–5
paralytic shellfish poison in various bivalves, Port Moresby, 1973, 349–352
the rare moray eel *Gymnothorax pikei* Bliss recorded from, 165–170
red tide in the Morobe District of, 7–13
Peka (*Pteropus tonganus tonganus*) (Mammalia, Chirotera), of Niue Island, South Pacific, 131–138
Petrolisthes zacae Haig, 1968 (Crustacea, Decapoda, Porcellanidae), development of larvae of, in the laboratory, 181–196
Phaenomonas, the eel genus of, 361–363
Pisces
the eel genus *Phaenomonas* (Ophichthidae), 361–363
fecundity and length at first spawning of the Hawaiian anchovy, or nehu (*Stolephorus purpureus* Fowler) in Kaneohe Bay, Oahu, 171–181
first description of the adult male of *Micrognathus brachyrhinus* (Syngnathidae), 267–268
food habits, functional digestive morphology and, assimilation efficiency of the rabbitfish *Siganus spinus* (Siganidae) on Guam, 269–277
observations on living juvenile specimens of the slender mola, *Ranzania laevis* (Molidae), 27–29
osteology and relationships of the eel *Diastobranchus capensis* (Synaphobranchidae), 159–163
the rare moray eel *Gymnothorax pikei* Bliss recorded from Papua New Guinea, 165–170
Platynereis bicanaliculata, aspects of life history and of territorial behavior in young individuals of, 341–348
Polychaeta
aspects of life history and of territorial behavior in young individuals of *Platynereis bicanaliculata* and *Nereis vexillosa*, 341–348
Prosthiostomum (*Lurymare*) *katoi*, new species, 317–339
Prosthiostomum (*Prosthiostomum*) *montiporae*, new species, 317–339
Pteropus tonganus tonganus of Nieu Island, South Pacific, 131–138

Radiatistigma sect. nov., 55–77
Radiolaria
trace element geochemistry of biogenic sediments from the western equatorial Pacific, 219–225
Ranzania laevis, observations on living juvenile specimens of, 27–29

Revision of the genus *Pandanus* Stickman
38. *Pandanus* in Fiji, first group (except section *Pandanus*), 55–77
39. *Pandanus* of Rotuma Island, Pacific Ocean, 371–406

Sandalops melancholicus, transitory eye shapes and the vertical distribution of, 243–255
Sarcodina
on the use of benthic foraminifera as sediment tracers in a Hawaiian bay, 99–115
trace element geochemistry of biogenic sediments from the western equatorial Pacific, 219–225
Sertulum Papuanum
20. Boraginaceae of the alpine regions of New Guinea, 79–98
Siganus spinus, food habits, functional digestive morphology, and assimilation efficiency of, on Guam, 269–277
Slender mola, observations on living juvenile specimens of, 27–29
Stolephorus purpureus Fowler, fecundity and length at first spawning of, in Kaneohe Bay, Oahu, 171–180

Taonius pavo, transitory eye shapes and the vertical distribution of, 243–255
Terebra gouldi Deshayes, 1859, biology of, and a discussion of life history similarities among other terebrids of similar proboscis type, 227–241
Thermal effects, on reef corals, 15–18
Trigonotis culminocola van Royen, n. sp., 79–98
Trigonotis haackii F. Mueller var. *archboldii* (Johnston) van Royen, nov. comb. et nov. stat., 79–98
Trigonotis vestita van Royen, n. sp., 79–98
Trizopagurus, a new Hawaiian hermit crab of the genus, with notes on its behavior, 259–266
Turbellaria
Hawaiian polyclad flatworms: prosthiostomids, 317–339

Warbling Silverbill, a new nesting bird in Hawaii, 51–54
Western Samoa
Lapita pottery and a lower sea level in, 309–315